

Chrysanthemum plant named 'CETWOTONE PINK'

BACKGROUND OF THE INVENTION

'Cetwotone Pink' is a product of a breeding-program which had the objective of creating new chrysanthemum cultivars with a daisy type flower, a 7 week response and a medium plant height (1 m). The new plant of the present invention comprises a new and distinct cultivar of Chrysanthemum plant. 'Cetwotone Pink' is a seedling from a cross in a breeding program maintained under the control of inventor. The female parent is # 97.0243 -unpatented-, an unnamed seedling not available to inventor for description. The male parent is unknown, being a mixed population of a group of male parents. The new and distinct cultivar was discovered and selected as a flowering plant within the progeny of the stated cross by Mark Roland Boeder in a controlled environment (greenhouse) in Rijsenhout Holland in 2001. The first act of asexual reproduction of 'Cetwotone Pink' was accomplished when vegetative cuttings were taken from the initial selection in 2001 in a controlled environment in Rijsenhout Holland.

SUMMARY OF THE INVENTION

The present invention is a new and distinct variety of chrysanthemum bearing medium sized blooms with bicolored purple-white ray-florets and green disc florets.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention of a new and distinct variety of chrysanthemum is shown in the accompanying drawings, the color being as nearly true as possible with color photographs of this type.

Fig. 1 shows a plant of the cultivar in full bloom.

Fig. 2 shows the various stages of bloom of the new cultivar.

Fig.3 shows the foliage of the new cultivar.

DESCRIPTION OF THE INVENTION

This new variety of chrysanthemum is of the botanical classification *Chrysanthemum morifolium*. The observations and measurements were gathered from plants grown in a greenhouse in Rijsenhout Holland in a photo-periodic controlled crop under conditions generally used in commercial practice. The greenhouse temperatures during this crop were at day-time between 18°C and 25°C and at night 20°C. After a long day period of 14 days the photo-periodic response time in this crop was 49 days. After the long day period to flowering growth retardants were applied 2 to 3 times in an average dose of 2.5 gram / liter water. The plants were observed (directly) during the flowering of this crop. No tests were done on disease or insect resistance or susceptibility. No tests were done on cold or drought tolerance. This new variety produces medium sized blooms with purple-white ray-florets and green disc-florets blooming on the plant for 5 weeks. This new variety of chrysanthemum has been found to retain its distinctive characteristics throughout successive propagations however the phenotype may vary significantly with variations in environment such as light intensity and temperature. To show the phenotype as described 'Cetwotone pink' can be planted without assimilation lightning (high pressure sodium lamps) between week 4 and week 32 under greenhouse conditions in Holland. With assimilation light (minimum level 2500 lux) it can be planted year round under greenhouse conditions in Holland.

From the cultivars known to inventor the most similar existing cultivar in comparison to 'Cetwotone Pink' is 'Orinoco' (USPP#14,338). When 'Orinoco' and 'Cetwotone pink' are being compared the following differences and similarities are

noticed: The differences of 'Orinoco' and 'Cetwotone Pink' are (1) Flower size. The flowers of 'Orinoco' are larger in size than those of 'Cetwotone Pink' (2) Number of inflorescences. 'Orinoco' has a smaller number of inflorescences per stem than 'Cetwotone Pink'. (3) Number of ray florets per inflorescences. The inflorescences of 'Orinoco' have a larger number of ray florets than 'Cetwotone Pink'.

The following is a description of the plant and characteristics that distinguish 'Cetwotone Pink' as a new and distinct variety. The color designations are taken from the plant itself. Accordingly, any discrepancies between the color designations and the colors depicted in the photographs are due to photographic tolerances. The color chart used in this description is: The Royal Horticultural Society Colour Chart, edition 1995.

Table 1. Botanical Description of culitvar ‘Cetwotone Pink’

Bud

Size	Medium, cross-section 0.8 cm height 0.8 cm
Outside color	Green 143C
Involucral bracts	2 rows, length 7 mm, width 3 mm
Involucral bracts among disc-florets	Not present
Involucral bracts color	Green 139B

Inflorescence

Type	Single
Height	1.5 cm
Size	medium
Fully expanded	4.5 cm
Number of blooms per stem	Average of 15
Performance on the plant	5 weeks
Seeds (if crossed)	Produced in large quantities, oval shaped, grey-brown 199A, 2 mm in length.
Fragrance	Typical chrysanthemum, slight
Peduncle length	Near the top 10 cm, near the middle 11 cm, near the bottom 12 cm
Peduncle color	Green 138B

Color

Center of the flower (disc-florets)	Immature Green 143C
	Mature Yellow 7A
Color of the ray-florets	Upper surface Red-purple 71A and White 155D at edges
	Lower surface Greyed-purple 186A and White 155D

Tonality from Distance	A spray mum with bicolored purple-white flowers and a green disc
Color of the upper surface of the ray-florets after aging of the plant	Red-purple 71A and White 155D

Ray florets

Texture	Upper and under side smooth
Number	20 - 25
Cross-section	Flat
Longitudinal axis of majority	Straight
Length of corolla tube	Short; 0.2 cm
Ray-floret margin	Entire
Ray-floret length	2 cm
Ray-floret width	0.7 cm
Ratio length / width	Medium
Shape of tip	Rounded

Disc florets

Disc diameter	1 cm
Distribution of disc florets	Numerous, clearly visible at all stages of flowering.
Shape	Tubular
Color	Yellow-green 154D
Receptacle shape	Domed raised

Reproductive Organs

Stamen	Present in disc florets only
Stamen color	Yellow-green 144 B
Pollen	Produced in large quantities

Pollen color	Yellow 7A
Styles	Present in both ray and disc florets
Style color	Yellow 13A
Style Length	4 mm
Stigma color	Yellow-green 145 D
Stigma Width	1 mm
Ovaries	Enclosed in perianth

Plant

Form	A spray mum meant for erect culture
Growth habit	Upright
Growth rate	Medium vigour
Height	90 cm
Width	20 cm
Internode length	3 cm
Spray formation	Corymbiform
Stem Color	Green 138B to 143A with streaks of Greyed-purple 185D
Stem Strength	Medium
Stem Brittleness	Not brittle
Stem Anthocyanin coloration	Present
Flowering Response (photo-periodic controlled crop, not natural season)	49 days

Foliage

Color immature stage	Upper side Green 137C
	Under side Green 138B
Color mature stage	Upper side Green 137A
	Under side Green 138A

Color midvein mature leaf	Upper side Green 138C
	Under side Yellow-green 147C
Size	Large; length 14 cm, width 7 cm
Quantity (number per single stem)	25
Shape	Elliptic
Texture upper side	Fleshy and glabrous
Texture under side	Pubescent
Venation arrangement	Palmate
Shape of the margin	Serrate
Shape of Base of Sinus Between Lateral Lobes	Rounded
Margin of Sinus Between Lateral Lobes	Diverging
Shape of Base	Obtuse-rounded
Apex	Micronulate
Petiole Length	2 cm
Petiole Color	Green 138C

Table 2. Differences with the comparison varieties

	'Cetwotone Pink'	'Orinoco'
Diameter inflorescences	4.5 cm	7.5 cm
Number inflorescences per stem	25 - 30	17
Number ray florets per stem	20 - 25	27 - 40